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Notice of Allowability	Application No.	Applicant(s)
	10/698,994	ITAMI, NAOSHIGE ET AL.
	Examiner	Art Unit
	Phu Vu	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>6/25/07</u> .		
2. The allowed claim(s) is/are 1-9, 14-18.		
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	- 5	_
1. Notice of References Cited (PTO-892)	5. Notice of Informal	* * * *
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar Paper No./Mail D	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amend	dment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Staten	nent of Reasons for Allowance
	9. Other	
Last Charles		
BavierNeims Supervisory Patent Examiner		
Technology Center 2800		

Application/Control Number: 10/698,994

Art Unit: 2871

DETAILED ACTION

Allowable Subject Matter

Claims 1-9 and 14-18 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding claims 1-9 and 14-18. There is no prior art of record that teaches a method of manufacturing a substrate for a liquid-crystal display device comprising steps of: forming a resin layer on a substrate; selectively- reforming the surface portion of said resin layer by applying energy with an energy per unit time of a prescribed value to generate a difference in rate of thermal shrinkage between said surface portion and the layer portion other than the surface portion in said resin layer; performing a heat treatment to form random wrinkles of micro-grooves in said surface portion; and forming reflective electrodes on said surface portion.

Tsuda as previously cited teaches a method of manufacturing a substrate for a liquid-crystal display device comprising steps of: forming a resin layer on a substrate; selectively- reforming the surface portion of said resin layer by applying energy with an energy per unit time of a prescribed value to generate a difference in rate of thermal shrinkage between said surface portion and the layer portion other than the surface portion in said resin layer and a heating step however the end product of Tsuda results in forming a curved electrode structure. Heat treatment in the current invention forms a curved structure however forms micro-grooves as shown in figure 14C of the current application which does not occur in Tsuda.

Art Unit: 2871

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562. The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Supervisory Patent Examiner
Test-hology Center 2800

Phu Vu Examiner AU 2871